INTERNATIONAL SEARCH REPORT

International application No.
PCT/GB 03/02863

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-32

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest.

☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-32

Electronic Device comprising a metal complex
The prior art (US5946550) describes a method for producing a ultrathin film semiconducting film consisting of Zn-complexes.
The new features mentioned in claims 1-32 are an electronic transistor comprising a linear platinum complex comprising Pt - Pt bonds and alternatively Cl ligands and NH2-R (R= 3,7-dimethyloctyl) ligands.
The special technical features, as defined in rule 13(2) PCT, are an electronic transistor comprising a linear platinum complex comprising Pt - Pt bonds and alternatively Cl ligands and NH2-R (R= 3,7-dimethyloctyl) ligands.

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2. claims: 33-41

Method of purifying a semiconductor material
The prior art (US5946550) describes a method for producing a ultrathin film semiconducting film consisting of Zn-complexes.
The new features mentioned in claims 33-41 are ethod of purifying a semiconductor material
The special technical features, as defined in rule 13(2) PCT, are ethod of purifying a semiconductor material

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB 03/02863

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01L51/20 H01L51/30 C07F15/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H01L C07F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, INSPEC, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 946 550 A (PAPADIMITRAKOPOULOS FOTIOS) 31 August 1999 (1999-08-31) figures 6-8	1-5,14, 18,22-32
E	WO 03/088372 A (IBM) 23 October 2003 (2003-10-23) page 25	1-5,18, 22-32
X	KIMIZUKA N: "TOWARDS SELF-ASSEMBLING INORGANIC MOLECULAR WIRES" ADVANCED MATERIALS, VCH VERLAGSGESELLSCHAFT, WEINHEIM, DE, vol. 12, no. 19, 2 October 2000 (2000-10-02), pages 1461-1463, XP000966765 ISSN: 0935-9648 the whole document	1-6, 15-17

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[X] Further documents are listed in the continuation of box C.

[X] Patent family members are listed in annex.

° Special categories of cited documents :

'A' document defining the general state of the art which is not considered to be of particular relevance

'E' earlier document but published on or after the international filing date

'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

'O' document referring to an oral disclosure, use, exhibition or other means

'P' document published prior to the international filing date but later than the priority date claimed

'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

'&' document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
25 February 2004	18. 05 2004

Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx 31 651 epo nl, Fax: (+31-70) 340-3016	Königstein, C

Form PCT/ISA/210 (second sheet) (January 2004)

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 481 362 A (YEDA RES & DEV) 22 April 1992 (1992-04-22) figure 6	1-5
A	WO 01/13914 A (UNIV VIRGINIA COMMONWEALTH) 1 March 2001 (2001-03-01) abstract	1,2,4-7, 9-12,16, 17
A	EP 1 191 614 A (CANON KK) 27 March 2002 (2002-03-27) abstract	1,2, 16-19,28
A	BERGLUND BAUDIN H ET AL: "ULTRAFAST ENERGY TRANSFER IN BINUCLEAR RUTHENIUM-OSMIUM COMPLEXES AS MODELS FOR LIGHT-HARVESTING ANTENNAS" JOURNAL OF PHYSICAL CHEMISTRY. A, MOLECULES, SPECTROSCOPY, KINETICS, ENVIRONMENT AND GENERAL THEORY, WASHINGTON, DC, US, vol. 106, no. 17, 2 May 2002 (2002-05-02), pages 4312-4319, XP001100646 ISSN: 1089-5639 the whole document	
A	WO 01/03126 A (CLAUSEN PETER CHRISTIAN ; GRYKO DANIEL TOMASZ (US); UNIV NORTH CAROLIN) 11 January 2001 (2001-01-11) the whole document	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/GB 03/02863

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5946550 A	31-08-1999	NONE	
WO 03088372 A	23-10-2003	US 2003203168 A1	30-10-2003
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		AU 6922900 A	19-03-2001
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		US 2002068190 A1	06-06-2002
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		JP 2003504839 T	04-02-2003
		NO 20016420 A	28-02-2002
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		US 2002154535 A1	24-10-2002